

Tue Jun 1 07:51:41 2004

US-10-063-567-60.ra1

Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 28, 2004, 14:33:06 ; Search time 22 seconds
(without alignments)
661.751 Million cell updates/sec

Title: US-10-063-567-60
Perfect score: 1431
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1431	100.0	282	4	US-09-404-879A-393 Sequence 393, App
2	1431	100.0	309	4	US-09-404-879A-392 Sequence 392, App
3	246.5	17.2	316	4	US-09-910-174B-24 Sequence 24, Appl
4	246.5	17.2	316	4	US-09-910-174B-24 Sequence 24, Appl
5	245	17.1	340	4	US-09-651-200-2 Sequence 2, Appl
6	245	17.1	441	4	US-09-651-200-4 Sequence 4, Appl
7	245	17.1	534	4	US-09-651-200-6 Sequence 6, Appl
8	245	17.1	534	4	US-09-651-200-24 Sequence 24, Appl
9	238.5	16.7	315	4	US-09-910-174B-28 Sequence 28, Appl
10	238.5	16.7	315	4	US-09-910-174B-28 Sequence 28, Appl
11	223	15.6	513	4	US-09-910-174B-18 Sequence 18, Appl
12	223	15.6	513	4	US-09-910-174B-18 Sequence 18, Appl
13	217.5	15.2	540	2	US-08-724-394A-4 Sequence 4, Appl
14	215.5	15.1	731	4	US-09-910-174B-15 Sequence 15, Appl
15	215.5	15.1	731	4	US-09-910-174B-15 Sequence 15, Appl
16	213.5	14.9	584	4	US-09-620-461-15 Sequence 15, Appl
17	213.5	14.9	584	4	US-09-620-461-15 Sequence 15, Appl
18	212.5	14.8	610	2	US-08-724-394A-5 Sequence 5, Appl
19	211.5	14.8	526	4	US-09-910-174B-9 Sequence 9, Appl
20	211.5	14.8	526	4	US-09-910-174B-9 Sequence 9, Appl
21	211.5	14.8	526	4	US-09-910-174B-9 Sequence 9, Appl
22	207.5	14.5	319	4	US-09-620-461-12 Sequence 12, Appl
23	207.5	14.5	319	4	US-09-620-461-12 Sequence 12, Appl
24	207.5	14.5	342	2	US-08-724-394A-6 Sequence 6, Appl
25	207.5	14.5	357	4	US-09-910-174B-14 Sequence 14, Appl
26	207.5	14.5	357	4	US-09-910-174B-14 Sequence 14, Appl
27	204	14.3	250	4	US-09-910-174B-19 Sequence 19, Appl

28	204	14.3	290	4	US-09-620-461-19 Sequence 19, Appl
29	204	14.3	350	4	US-09-651-200-25 Sequence 25, Appl
30	204	14.3	350	4	US-09-910-174B-17 Sequence 17, Appl
31	204	14.3	350	4	US-09-620-461-17 Sequence 17, Appl
32	199.5	13.9	290	4	US-09-910-174B-32 Sequence 32, Appl
33	196	13.7	296	4	US-09-667-135-36 Sequence 36, Appl
34	193	13.5	527	4	US-09-910-174B-10 Sequence 10, Appl
35	193	13.5	527	4	US-09-620-461-10 Sequence 10, Appl
36	192	13.4	329	4	US-09-651-200-18 Sequence 18, Appl
37	192	13.4	329	4	US-09-303-040-6 Sequence 6, Appl
38	188.5	13.2	290	4	US-09-910-174B-8 Sequence 8, Appl
39	188.5	13.2	290	4	US-09-620-461-8 Sequence 8, Appl
40	186	13.0	529	4	US-09-910-174B-13 Sequence 13, Appl
41	186	13.0	529	4	US-09-620-461-13 Sequence 13, Appl
42	186	13.0	581	2	US-08-724-394A-2 Sequence 2, Appl
43	179	12.5	523	4	US-09-910-174B-11 Sequence 11, Appl
44	179	12.5	523	4	US-09-620-461-11 Sequence 11, Appl
45	179	12.5	581	2	US-08-724-394A-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1:
US-09-404-879A-393
; Sequence 393, Application US/09404879A
; Patent No. 6468546
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C2
; CURRENT APPLICATION NUMBER: US/09/404,879A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 393
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 393
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-404-879A-393

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Matches 282; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 61 DIKLSIDIYQMLKGVGLVHFEKGEDELSEQDEMERGRATVADQVIYGNASLRKNV 120
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DB 181 MASQDQANFSEVNTSFEINSENVTMKTVSVLVNTINNTYSCMIENDIATGDIKY 240
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DB 241 TESSEKRSKSHQLNLSKASLCVSSFFFAISWALPLSPYLMK 282
RESULT 2:
US-09-404-879A-392
; Sequence 392, Application US/09404879A
; Patent No. 6468546

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Page 2

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1  GENERAL INFORMATION:
2  APPLICANT: Mitcham, Jennifer L.
3  APPLICANT: King, Gordon E.
4  APPLICANT: Algate, Paul A.
5  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
6  TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
7  FILE REFERENCE: 210121.462C2
8  CURRENT APPLICATION NUMBER: US/09/404,879A
9  CURRENT FILING DATE: 1999-09-24
10 NUMBER OF SEQ ID NOS: 393
11 SOFTWARE: FastSeq for Windows Version 3.0
12 SEQ ID NO 392
13     LENGTH: 309
14     TYPE: PRT
15 ORGANISM: Homo sapiens
16 US-09-404-879A-392

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QY	241	TESETIKRRSHQLNKSASLVCYSSFPFASWALLPSPYIMLK	282	
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1  RESULT 3
2  US-09-910-174B-24
3  / Sequence 24, Application US/09910174B
4  / Patent No. 6630575
5  / GENERAL INFORMATION:
6  / APPLICANT: Coyle, Anthony J.
7  / APPLICANT: Fraser, Christopher C.
8  / APPLICANT: Manning, Stephen
9  / TITLE OF INVENTION: B7-H2 Molecules, No. 6630575el Members of the B7
10 / TITLE OF INVENTION: Family and Uses Thereof
11 / FILE REFERENCE: 35800/236924
12 / CURRENT APPLICATION NUMBER: US/09/910,174B
13 / PRIOR FILING DATE: 2001-07-20
14 / PRIOR APPLICATION NUMBER: US 09/620,461
15 / PRIOR FILING DATE: 2000-07-20
16 / NUMBER OF SEQ ID NOS: 32
17 / SOFTWARE: PaatSeq for Windows Version 4.0
18 / SEQ ID NO: 24
19 / LENGTH: 316
20 / TYPE: PRT
21 / ORGANISM: Homo sapiens
22 / US-09-910-174B-24

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OY 139 GNNLEFXKGA-FSMENVVDN-----ASSETLRCAAPRMEPOPTVMAASQVDOGANFS 132
Db 130 GSAASVLOVAAPYSKFSMTLEPNCKDLRBDYVTLITCSSYRGIPAEVFM--QDSQ3VPLT 187
OY 193 EVANTSEFLINSEVMTAKVSVLYLNT-INTTSCMIIBDIK--ATGDIKYT 241
Db 188 GNVTTSGANBEGLEFVHSLVRLVLANGNTISCLVNPVUQDAAHGSVIT 238

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 : Sequence 24, Application US/09620461
 : Patent No. 6635750
 : GENERAL INFORMATION:
 : APPLICANT: Coyle, Anthony J.
 : APPLICANT: Fraser, Christopher C.
 : TITLE OF INVENTION: B7-H2 Molecules, No. 6635750e1 Members of the B7
 : TITLE OF INVENTION: Family and Uses thereof
 : FILE REFERENCE: 5800-149
 : CURRENT APPLICATION NUMBER: US/09/620,461
 : CURRENT FILING DATE: 2000-07-20
 : NUMBER OF SEQ. ID NOS.: 29
 : SOFTWARE: PaetSeq for Windows Version 3.0
 : SEQ. ID NO. 24
 : LENGTH: 316
 : TYPE: PRT
 : ORGANISM: Homo sapiens
 : US-09-620-461-24

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 Sequence 2, Application US/09651200
 Patent No. 6428303
 GENERAL INFORMATION:
 APPLICANT: Green et al
 TITLE OF INVENTION: Polynucleotides Encoding Members of the Human
 TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
 TITLE OF INVENTION: Polypeptides Encoded Thereby
 FILE REFERENCE: 15966-562 (USRA-62)
 CURRENT APPLICATION NUMBER: US/09/751,200
 CURRENT FILING DATE: 2000-08-30
 PRIOR APPLICATION NUMBER: 60/152353
 PRIOR FILING DATE: 1999-09-03
 PRIOR APPLICATION NUMBER: 60/172909
 PRIOR FILING DATE: 1999-12-21
 PRIOR APPLICATION NUMBER: 60/183578
 PRIOR FILING DATE: 2000-02-18

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us-10-063-567-60.rmpb

Page 1

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1431	100.0	1658	9	US-09-989-723-290	Sequence 290, Appl
5	1431	100.0	1658	9	US-09-989-729-290	Sequence 290, Appl
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9	1431	100.0	1658	9	US-09-991-073-290	Sequence 290, Appl
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37	1431	100.0	1658	10	US-09-991-172-290	Sequence 290, Appl
38	1431	100.0	1658	10	US-09-990-726-290	Sequence 290, Appl
39	1431	100.0	1658	10	US-09-997-559-290	Sequence 290, Appl
40	1431	100.0	1658	10	US-09-997-601-290	Sequence 290, Appl
41	1431	100.0	1658	10	US-09-990-443-290	Sequence 290, Appl
42	1431	100.0	1658	10	US-09-992-769-4	Sequence 4, Appl
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ALIGNMENTS

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Sequence 6: Application US/0915789A
Patent No. US20020168762A1
GENERAL INFORMATION:
APPLICANT: Chen, Lieping
TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
FILE REFERENCE: 07039-219001
CURRENT APPLICATION NUMBER: US/09/915,789A
CURRENT FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: US 60/220,991
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 6
LENGTH: 849
TYPE: DNA
ORGANISM: Homo sapiens
US-09-915-789A-6

Alignment Scores: 1.7e-172 Length: 849
Pred. No.: 849

Tue Jun 1 07:51:42 2004

us-10-063-567-60.rnpb

Page 2

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Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
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QY 41 ThrValAlaSerAlaGlyAsnIleGlyGluAspGlyIleLeuSerCysThrPheGluPro 60
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DB 181 GACATCAAACTTCTGATATCGGATACATGCTGAGAGAGAGTGTATTAGGCTTGATC 240
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DB 241 CATGAGTTCAAGAGGCAAGATGAGCTTCGAGCAAGATGAAATGTTCAAGAGCCGG 300
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DB 301 AAGGAGTGTGGCTGATCAAGTGAATGATGCGCAATGCTTGGCGGCTGAAAGAGCG 360
QY 121 GlnLeuThrAspAlaGlyThrTrpCysTrpIleIlePheSerIleGlyValLeuVal 140
DB 361 CAACTCAAGATGCTGAGCTCAAAATGATATATCATCTTCTTAAAGGAGGGAGAT 420
QY 141 AlaAsnLeuGlyTrpIleThrGlyAlaPheSerMetProGluValAsnValAspIleVal 160
DB 421 GCTAATCTGATATATTAATCTGAGCTTCAGATGCGGAGATGATGATGATATAT 480
QY 161 AlaSerSerGlnThrLeuArgCysGluAlaProArgTrpPheProGlnProThrValVal 180
DB 481 GCCGCTCAGAGCACTTGGCGGTGAGAGCTCCCGAGGTGCCCGCCAGCCAGTGTGC 540
QY 181 TrpAlaSerGlnValAspGlnGlyAlaAsnPheSerGluValSerAsnThrSerPheGlu 200
DB 541 TGGGCAATCCCAAGTTGACAGGAGGAGCACTTCGGAAGTCCCATATCCAGCTTGAG 600
QY 201 LeuAsnSerGluAsnValThrMetIleValIleValIleValIleValIleValIleVal 220
DB 601 CTGAATCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
QY 221 AsnThrTrpSerCysMetIleGlyAsnAspIleAlaIleValIleValIleValIleVal 240
DB 661 AAGCAATCTCTGATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
QY 241 ThrGlnSerGlnIleValArgArgSerHisLeuGlnLeuLeuAsnSerIleValIleVal 260
DB 721 ACAAGATTCGAGATTAAGAGGAGGAGTCACTGACGCTGAACTCAAGGCTTCTG 780
QY 261 CysValSerSerPhePheAlaIleSerTrpAlaLeuLeuProLeuSerProTrpLeuMet 280
DB 781 TGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 840
QY 281 LeuIleVal 282
DB 841 CTAAATA 846
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RESULT 2: 5065-5
Sequence 5, Application US/09877065
Patent No. US020051990A1
GENERAL INFORMATION:

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APPLICANT: OPLE, ERIC  
APPLICANT: MCILACHIAN, KAREN  
APPLICANT: HEARD, CHERIL J.  
TITLE OF INVENTION: NOVEL GENE TARGETS AND LIGANDS THAT BIND THERERO FOR  
FILE REFERENCE: 037003-0280631  
CURRENT APPLICATION NUMBER: US/09/877,065  
PRIORITY FILING DATE: 2001-06-11  
PRIORITY APPLICATION NUMBER: 60/210,451  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 5  
LENGTH: 1065  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-877-065-5  
Alignment Scores:  
Pred. No.: 2,46e-172 Length: 1065  
Score: 1431.00 Matches: 282  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
US-10-063-567-60 (1-282) x US-09-877-065-5 (1-1065)  
QY 1 MetAlaSerLeuGlyGlnIleLeuPheTrpSerIleIleSerIleIleIleLeuAla 20  
DB 72 ATGGCTTCCTGGGCGAGATCCCTCTTGAGGATATATGATCATCATATATCTGGCT 131  
QY 21 GlyAlaIleAlaLeuIleIleGlyPheGlyIleSerGlyArgHisSerIleThrValThr 40  
DB 132 GGAGCAATTCATCATCATCTGGCTTGGATTCAGGAGACATCCCATCATCATCATCT 191  
QY 41 ThrValAlaSerAlaGlyAsnIleGlyGluAspGlyIleLeuSerCysThrPheGluPro 60  
DB 192 ACTGTCGCTCAGCTCGGAAACATTCGGGAGGATGAAATCCTGAGCTGCACTTTGAACCT 251  
QY 61 AspIleIleLeuSerAspIleValIleGlnTrpLeuGlyGluGlyValLeuGlyLeuVal 80  
DB 252 GACATCAAACTTCTGATATCGGATACATGCTGAGAGAGTGTATTAGGCTTGATC 311  
QY 81 HisGluPheLeuGlyGlyValAspGlyLeuSerGlyGluAspGlyLeuPheArgGlyArg 100  
DB 312 CATGAGTTCAAGAGGCAAGATGAGCTTCGAGCAAGATGAAATGTTCAAGAGCCGG 371  
QY 101 ThrAlaValPheAlaAspGlnValIleValIleGlyAsnAlaSerLeuArgLeuValAsnVal 120  
DB 372 AAGGAGTGTGGCTGATCAAGTGAATGATGCGCAATGCTTGGCGGCTGAAAGAGCTG 431  
QY 121 GlnLeuThrAspAlaGlyThrTrpCysTrpIleIlePheSerIleGlyValLeuVal 140  
DB 432 CAATCAAGATGCTGAGCACTCAAAATGATATATCATCATCTTCAAGGCAAGGGAGAT 491  
QY 141 AlaAsnLeuGlyTrpIleThrGlyAlaPheSerMetProGluValAsnValAspIleVal 160  
DB 492 GCTAATCTGAGATTAATTAATCTGAGCTTCGGAAGTCCCATATCCAGCTTGAG 551  
QY 161 AlaSerSerGlnThrLeuArgCysGluAlaProArgTrpPheProGlnProThrValVal 180  
DB 552 GCCAGCTCAGAGCACTTGGCGGTGAGAGCTCCCGATGTTCCCGAGCCAGTGTGC 611  
QY 181 TrpAlaSerGlnValAspGlnGlyAlaAsnPheSerGluValSerAsnThrSerPheGlu 200  
DB 612 TGGGCAATCCCAAGTTGACAGGAGGAGCACTTCGGAAGTCCCATATCCAGCTTGAG 671  
QY 201 LeuAsnSerGluAsnValThrMetIleValIleValIleValIleValIleValIleVal 220  
DB 672 CTGAATCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 731  
QY 221 AsnThrTrpSerCysMetIleGlyAsnAspIleAlaIleValIleThrGlyAspIleVal 240
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us-10-063-567-60.rnpb

PRIOR APPLICATION NUMBER: 60/087759	PRIOR FILING DATE: 1998-06-02	PRIOR APPLICATION NUMBER: 60/087827	PRIOR FILING DATE: 1998-06-03	PRIOR APPLICATION NUMBER: 60/088021	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088025	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088026	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088028	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088029	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088030	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088033	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088326	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088167	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088202	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088212	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088217	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088655	PRIOR FILING DATE: 1998-06-09	PRIOR APPLICATION NUMBER: 60/088734	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088738	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088742	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088810	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088824	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088826	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088858	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088861	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088876	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088910	PRIOR FILING DATE: 1998-06-12	PRIOR APPLICATION NUMBER: 60/089440	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089512	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089514	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089522	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089538	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089539	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089599	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089600	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089653	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089801	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089807	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089908	PRIOR FILING DATE: 1998-06-18
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OM nucleic - nucleic search, using sw model

Run on: May 29, 2004, 22:45:14 / Search time 149 Seconds
(Without alignments)
6175.225 Million cell updates/sec

Title: US-10-063-567-59

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Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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6: /cgn2_6/ptodata/2/ina/5F COMB.seg: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1609.8	97.1	2627	4 US-09-404-879A-391	Sequence 391, Appl
2	589.8	35.6	1567	4 US-09-404-879A-74	Sequence 74, Appl
3	589.8	35.6	1567	4 US-09-338-933-74	Sequence 74, Appl
4	589.8	35.6	1567	4 US-09-215-681-74	Sequence 74, Appl
5	589.8	35.6	1567	4 US-09-216-003A-74	Sequence 74, Appl
6	530.6	32.0	541	4 US-09-404-879A-28	Sequence 28, Appl
7	530.6	32.0	541	4 US-09-338-933-28	Sequence 28, Appl
8	530.6	32.0	541	4 US-09-215-681-28	Sequence 28, Appl
9	530.6	32.0	541	4 US-09-216-003A-28	Sequence 28, Appl
10	69	4.2	332	4 US-09-621-976-16031	Sequence 16031, A
11	67.6	4.1	396	4 US-09-640-173-10	Sequence 10, Appl
12	67.6	4.1	396	4 US-09-713-550-10	Sequence 10, Appl
13	67.6	4.0	2780	3 US-08-800-291B-1	Sequence 1, Appl
14	66.6	4.0	413	4 US-09-227-357-71	Sequence 71, Appl
15	66.2	4.0	339	4 US-09-621-976-16012	Sequence 16012, A
16	66.2	4.0	332	4 US-09-621-976-16050	Sequence 16050, A
17	66.2	4.0	332	4 US-09-621-976-16053	Sequence 16053, A
18	66.2	4.0	333	4 US-09-621-976-16032	Sequence 16032, A
19	66.2	4.0	334	4 US-09-621-976-16045	Sequence 16045, A
20	66.2	4.0	334	4 US-09-621-976-16044	Sequence 16044, A
21	66.2	4.0	335	4 US-09-621-976-16061	Sequence 16061, A
22	66.2	4.0	336	4 US-09-621-976-16013	Sequence 16013, A
23	66.2	4.0	338	4 US-09-621-976-16041	Sequence 16041, A
24	66.2	4.0	347	4 US-09-621-976-16026	Sequence 16026, A
25	66.2	4.0	357	4 US-09-621-976-16058	Sequence 16058, A
26	66.2	4.0	359	4 US-09-621-976-16008	Sequence 16008, A
27	66.2	4.0	359	4 US-09-621-976-16019	Sequence 16019, A

28	66.2	4.0	362	4 US-09-621-976-16010	Sequence 16010, A
29	66.2	4.0	365	4 US-09-621-976-16042	Sequence 16042, A
30	66.2	4.0	1582	3 US-08-545-196B-10	Sequence 10, Appl
31	66.2	4.0	1582	3 US-08-545-196B-12	Sequence 12, Appl
32	66	4.0	299	4 US-09-621-976-10211	Sequence 10211, A
33	65.8	4.0	326	4 US-09-621-976-16024	Sequence 16024, A
34	65.6	4.0	2567	3 US-08-993-260-4	Sequence 4, Appl
35	65.4	3.9	371	4 US-09-621-976-16048	Sequence 16048, A
36	65	3.9	327	4 US-09-621-976-16018	Sequence 16018, A
37	65	3.9	339	4 US-09-621-976-16015	Sequence 16015, A
38	64.8	3.9	1736	3 US-09-182-816-22	Sequence 22, Appl
39	64.8	3.9	1736	3 US-09-182-816-24	Sequence 24, Appl
40	64.8	3.9	1736	3 US-09-471-528-22	Sequence 22, Appl
41	64.8	3.9	1736	3 US-09-471-528-24	Sequence 24, Appl
42	64.8	3.9	1736	3 US-09-634-530-22	Sequence 22, Appl
43	64.8	3.9	1736	3 US-09-634-530-24	Sequence 24, Appl
44	64.6	3.9	336	4 US-09-621-976-16051	Sequence 16051, A
45	64.6	3.9	1474	3 US-08-821-994-64	Sequence 64, Appl

ALIGNMENTS

Result 1
US-09-404-879A-391
Sequence 391, Application US/09404879A
Patent No. 6468546
GENERAL INFORMATION:
APPLICANT: Mitcham, Jennifer L.
APPLICANT: King, Gordon E.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.462C2
CURRENT APPLICATION NUMBER: US/09/404, 879A
CURRENT FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 393
SOFTWARE: PasteSeq for Windows Version 3.0
SEQ ID NO 391
LENGTH: 2627
TYPE: DNA
ORGANISM: Homo sapiens
US-09-404-879A-391

Query Match	97.1%	Score 1609.8;	DB 4;	Length 2627;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1611;	Conservative	0;	Mismatches 2;	Indels 0;
Gaps 0;				
QY	1	GGAAGGCGGCGGAGCTCCAGCTCAGCCAGTACCGAGATAGCGGAACTTCCCGAGCC	60	
DB	23	GGAAGGCGGCGGAGCTCCAGCTCAGCCAGTACCGAGATAGCGGAACTTCCCGAGCC	82	
QY	61	ATGCTTCCCTGGGCGAGATCTCTTCTGAGCACTAATAGCATCATATCTGCTGCT	120	
DB	83	ATGCTTCCCTGGGCGAGATCTCTTCTGAGCACTAATAGCATCATATCTGCTGCT	142	
QY	121	GGAGCAATGAGCATCATATGCTTGGTATTCAGGAGAGCATCTCATAGAGTACT	180	
DB	143	GGAGCAATGAGCATCATATGCTTGGTATTCAGGAGAGCATCTCATAGAGTACT	202	
QY	181	ACTGTGCTCAGCTGGGAGCATTTGGGAGGATGAAATCTGAGCTGACCTTTGAACCT	240	
DB	203	ACTGTGCTCAGCTGGGAGCATTTGGGAGGATGAAATCTGAGCTGACCTTTGAACCT	262	
QY	241	GACATCAACTTCTGATATGATATCAATGCTGGAAGAAAGTGTTTAGCTTGGTC	300	
DB	263	GACATCAACTTCTGATATGATATCAATGCTGGAAGAAAGTGTTTAGCTTGGTC	322	
QY	301	CATGAGTTCAAGAAGCAAGATGAGCTGCGAGAGCATGAAATGTTTCAGAGCGCG	360	
DB	323	CATGAGTTCAAGAAGCAAGATGAGCTGCGAGAGCATGAAATGTTTCAGAGCGCG	382	
QY	361	ACAGAGCTTGTCTGATCAAGATGATGTTGGCAATGCTCTTTCGCGGCTGAAGAAAGCTG	420	

Db	383	ACACAGAGTTTGTGTGATCAAGTATAGTTGGCAATGCTCTTTGGCGCTGAAAACGTG	442
Qy	421	CAATCACAATGCTGGGCACTTAACAATGTAAATCAATCTTAAAGCAAGGGAAAT	480
Db	443	CAATCACAAGTGTGGGCACTTAACAATGTAAATCAATCTTAAAGCAAGGGAAAT	502
Qy	481	GCTAACCTTGAGTAAATCTGGAGCCTCAGCAATGCCGAAGGAATGTGACATAAT	540
Db	503	GCTAACCTTGAGTAAATCTGGAGCCTCAGCAATGCCGAAGGAATGTGACATAAT	562
Qy	541	GCCAGCTCAGAGACTTGGGTGTGAAGCTCCCGATGTTCCCGCAGCCACAGTGGTC	600
Db	563	GCCAGCTCAGAGACTTGGGTGTGAAGCTCCCGATGTTCCCGCAGCCACAGTGGTC	622
Qy	601	TGGGCATCCCAAGTTGACAGGGAGCCACTTCTGGAAATCTTCAATACAGCTTTGAG	660
Db	623	TGGGCATCCCAAGTTGACAGGGAGCCACTTCTGGAAATCTTCAATACAGCTTTGAG	682
Qy	661	CTGAACCTGAGAAATGACCAATGAAGTGTGTGTGTCTTACAAATGTAAGATCAAC	720
Db	683	CTGAACCTGAGAAATGACCAATGAAGTGTGTGTGTCTTACAAATGTAAGATCAAC	742
Qy	721	AACAATCTCTGTATGATTGAAATGACATTTGCCAAAGCAAGGGGATATCAAGTG	780
Db	743	AACAATCTCTGTATGATTGAAATGACATTTGCCAAAGCAAGGGGATATCAAGTG	802
Qy	781	ACGAATTCGGAGATCAAAAAGCGGAGTCACTTCAAGTGTAACTGAAAGCTTCTTG	840
Db	803	ACGAATTCGGAGATCAAAAAGCGGAGTCACTTCAAGTGTAACTGAAAGCTTCTTG	862
Qy	841	TGTGTCTCTTCTTCTTCTTGTGCAATCAGTGGGCACTTCTGCTCTCAGCCCTTAACGTGAG	900
Db	863	TGTGTCTCTTCTTCTTCTTGTGCAATCAGTGGGCACTTCTGCTCTCAGCCCTTAACGTGAG	922
Qy	901	CTAAATTAATGTGCTCTTGGCCACAAAAAGCATGCAAAATCTGTTTCAACAGGATCT	960
Db	923	CTAAATTAATGTGCTCTTGGCCACAAAAAGCATGCAAAATCTGTTTCAACAGGATCT	982
Qy	961	ACAGAACTATTCACACACAGAAATGACCTAGTTTAAATTTCTGGAGGAATGATTC	1020
Db	983	ACAGAACTATTCACACACAGAAATGACCTAGTTTAAATTTCTGGAGGAATGATTC	1042
Qy	1021	ATATCTAGAAAGTGTGAGTGAAGCAACAAGACAAACAAAGAACCCAAAGACGA	1080
Db	1043	ATATCTAGAAAGTGTGAGTGAAGCAACAAGACAAACAAAGAACCCAAAGACGA	1102
Qy	1081	AGGCTCCAAATTAAGAACAAATATAATCTTCAAGACATTTGAAAGTTGGAAAAATA	1140
Db	1103	AGGCTCCAAATTAAGAACAAATATAATCTTCAAGACATTTGAAAGTTGGAAAAATA	1162
Qy	1141	ATTCAATGTGAACTAGCAAGTGTGTTAAGATGAAGTAAATGACGTGGACAAGT	1200
Db	1163	ATTCAATGTGAACTAGCAAGTGTGTTAAGATGAAGTAAATGACGTGGACAAGT	1222
Qy	1201	GCATCCCAAGATCTCAGGAGCTCTCCCTGCTGCACCTGGGAGTGAAGACAGAT	1260
Db	1223	GCATCCCAAGATCTCAGGAGCTCTCCCTGCTGCACCTGGGAGTGAAGACAGAT	1282
Qy	1261	AGTGATGTTCTTTTGCTCTGAATTTTAAATATATGCTGTAAATGTTGCTCTGAGAA	1320
Db	1283	AGTGATGTTCTTTTGCTCTGAATTTTAAATATATGCTGTAAATGTTGCTCTGAGAA	1342
Qy	1321	GCCCTTGAAAGTCTATCCCAACATATCCACATCTTATATTCACAAATTAAGCTGAGT	1380
Db	1343	GCCCTTGAAAGTCTATCCCAACATATCCACATCTTATATTCACAAATTAAGCTGAGT	1402
Qy	1381	ATGTACCTTAAGAGCTGTAAATTAAGATGAGCCACTTGGCACTCAGGGGCGCTGCATTT	1440
Db	1403	ATGTACCTTAAGAGCTGTAAATTAAGATGAGCCACTTGGCACTCAGGGGCGCTGCATTT	1462
Qy	1441	AGTATGAGTCAAAATGATTCATTTTATGATGCTTCAAAAGGAGCTTGCTCTCTCTC	1500

Db 541 CGGCGACACCGATTATTAATAACTGAGCAGCTCTTTTAAACAAACAA 593

RESULT 3
US-09-338-933-74
Sequence 74, Application US/09338933

Patent No. 6488931
GENERAL INFORMATION:
APPLICANT: Mitcham, Jennifer Lynn
APPLICANT: King, Gordon E.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
TITLE OF INVENTION: OVARIAN CANCER
FILE REFERENCE: 210121.462C1
CURRENT APPLICATION NUMBER: US/09/338,933
CURRENT FILING DATE: 1999-06-23
NUMBER OF SEQ ID NOS: 312
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 74
LENGTH: 1567
TYPE: DNA
ORGANISM: Homo sapien
US-09-338-933-74

Query Match 35.6%; Score 589.8; DB 4; Length 1567;
Best Local Similarity 99.7%; Pred. No. 2.9e-139;
Matches 591; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1021 ATATCTAGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 1080
Db 1 ATATCTAGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 60
Qy 1081 AGGCTCCAAATATGAAACAAGATTAATCTATCTTCAAGAATTTAGAGTTGGAAATA 1140
Db 61 AGGCTCCAAATATGAAACAAGATTAATCTATCTTCAAGAATTTAGAGTTGGAAATA 120
Qy 1141 ATTCACTGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 1200
Db 121 ATTCACTGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 180
Qy 1201 GCATCCCAAGATCTCAGGAGACCTCCCTGCTGCTCACTGAGGAGTGAAGAGCAGAT 1260
Db 181 GCATCCCAAGATCTCAGGAGACCTCCCTGCTGCTCACTGAGGAGTGAAGAGCAGAT 240
Qy 1261 AGTGCATGTTCTTGTCTCTGAATTTTATGATATGTCGTATGTCCTGAGGAA 1320
Db 241 AGTGCATGTTCTTGTCTCTGAATTTTATGATATGTCGTATGTCCTGAGGAA 300
Qy 1321 GCCCTGGAAGATCTATCCCAATATCCATCTTATATTCACAAATTAAGCTGAT 1380
Db 301 GCCCTGGAAGATCTATCCCAATATCCATCTTATATTCACAAATTAAGCTGAT 360
Qy 1381 ATGTACCTTAAGAGCTGCTATTAATGAGTCTGCACTTTCGCAACTCAGGGGCGCTGATTTT 1440
Db 361 ATGTACCTTAAGAGCTGCTATTAATGAGTCTGCACTTTCGCAACTCAGGGGCGCTGATTTT 420
Qy 1441 AGTATGGGTCAAAATGATCACTTTTATGATGCTCCAAAGAGTCTGCTCTCTC 1500
Db 421 AGTATGGGTCAAAATGATCACTTTTATGATGCTCCAAAGAGTCTGCTCTCTC 480
Qy 1501 CCAACTGACAAATGCAAGATGAGAAAAATGATCATTAATTTAGCATTAACAGAGCAGT 1560
Db 481 CCAACTGACAAATGCAAGATGAGAAAAATGATCATTAATTTAGCATTAACAGAGCAGT 540
Qy 1561 CGGCGACACCGATTATTAATAACTGAGCAGCTCTTTTAAACAAACAA 1613
Db 541 CGGCGACACCGATTATTAATAACTGAGCAGCTCTTTTAAACAAACAA 593

GENERAL INFORMATION:
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Frudakis, Tony N.
APPLICANT: King, Gordon E.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
TITLE OF INVENTION: OF OVARIAN CANCER
FILE REFERENCE: 210121.463
CURRENT APPLICATION NUMBER: US/09/215,681A
CURRENT FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 310
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 74
LENGTH: 1567
TYPE: DNA
ORGANISM: Homo sapien
US-09-215-681-74

Query Match 35.6%; Score 589.8; DB 4; Length 1567;
Best Local Similarity 99.7%; Pred. No. 2.9e-139;
Matches 591; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1021 ATATCTAGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 1080
Db 1 ATATCTAGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 60
Qy 1081 AGGCTCCAAATATGAAACAAGATTAATCTATCTTCAAGAATTTAGAGTTGGAAATA 1140
Db 61 AGGCTCCAAATATGAAACAAGATTAATCTATCTTCAAGAATTTAGAGTTGGAAATA 120
Qy 1141 ATTCACTGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 1200
Db 121 ATTCACTGAGTCTGAGTGAAGCAACAGAGCAAGAAACAAAGAGCCAAAGCAGA 180
Qy 1201 GCATCCCAAGATCTCAGGAGACCTCCCTGCTGCTCACTGAGGAGTGAAGAGCAGAT 1260
Db 181 GCATCCCAAGATCTCAGGAGACCTCCCTGCTGCTCACTGAGGAGTGAAGAGCAGAT 240
Qy 1261 AGTGCATGTTCTTGTCTCTGAATTTTATGATATGTCGTATGTCCTGAGGAA 1320
Db 241 AGTGCATGTTCTTGTCTCTGAATTTTATGATATGTCGTATGTCCTGAGGAA 300
Qy 1321 GCCCTGGAAGATCTATCCCAATATCCATCTTATATTCACAAATTAAGCTGAT 1380
Db 301 GCCCTGGAAGATCTATCCCAATATCCATCTTATATTCACAAATTAAGCTGAT 360
Qy 1381 ATGTACCTTAAGAGCTGCTATTAATGAGTCTGCACTTTCGCAACTCAGGGGCGCTGATTTT 1440
Db 361 ATGTACCTTAAGAGCTGCTATTAATGAGTCTGCACTTTCGCAACTCAGGGGCGCTGATTTT 420
Qy 1441 AGTATGGGTCAAAATGATCACTTTTATGATGCTCCAAAGAGTCTGCTCTCTC 1500
Db 421 AGTATGGGTCAAAATGATCACTTTTATGATGCTCCAAAGAGTCTGCTCTCTC 480
Qy 1501 CCAACTGACAAATGCAAGATGAGAAAAATGATCATTAATTTAGCATTAACAGAGCAGT 1560
Db 481 CCAACTGACAAATGCAAGATGAGAAAAATGATCATTAATTTAGCATTAACAGAGCAGT 540
Qy 1561 CGGCGACACCGATTATTAATAACTGAGCAGCTCTTTTAAACAAACAA 1613
Db 541 CGGCGACACCGATTATTAATAACTGAGCAGCTCTTTTAAACAAACAA 593

RESULT 5
US-09-216-003A-74
Sequence 74, Application US/09216003A

Patent No. 6670463
GENERAL INFORMATION:
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Frudakis, Tony N.
APPLICANT: King, Gordon E.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF OVARIAN CANCER
FILE REFERENCE: 210121.462

QY 61 DIKLSDIVIOWLKEGVGLVHEFEKEDLSEODEMFRGRTAVFADQVIVGNASLRLKNV 120
 DB 61 DIKLSDIVIOWLKEGVGLVHEFEKEDLSEODEMFRGRTAVFADQVIVGNASLRLKNV 120
 QY 121 QLTDAQTYKCYIITTSKKGANLEKYTGAFSPMEPVNDVNASSETLRCEAPRPFQPTVV 180
 DB 121 QLTDAQTYKCYIITTSKKGANLEKYTGAFSPMEPVNDVNASSETLRCEAPRPFQPTVV 180
 QY 181 WASQVDOGANFSEVNTSPFLNSENVTMKVSVLYNVTINNTYSCMIENDIAKATGDIKV 240
 DB 181 WASQVDOGANFSEVNTSPFLNSENVTMKVSVLYNVTINNTYSCMIENDIAKATGDIKV 240
 QY 241 TSESEIKRSHLOLINSKASLCVSSFPFAISWALLPLSPYIMLK 282
 DB 241 TSESEIKRSHLOLINSKASLCVSSFPFAISWALLPLSPYIMLK 282
 RESULT 13
 ID ABB76274 standard; protein; 282 AA.
 AC ABB76274;
 DT 12-AUG-2002 (first entry)
 DE Breast BS265 polypeptide.
 KW BS265; human; breast; cancer; tumour; metastasis; diagnosis;
 KW gene therapy.
 OS Homo sapiens.
 PN US2002034749-A1.
 XX 21-MAR-2002.
 PD 07-MAY-2001; 2001US-00850178.
 PF 18-NOV-1997; 97US-00972376.
 PR 18-NOV-1998; 98US-00193944.
 PA (BILL/) BILLINGEL P A.
 PA (COHE/) COHEN M.
 PA (CORP/) CORPITTS T L.
 PA (FRIE/) FRIEDMAN P N.
 PA (GORD/) GORDON J.
 PA (GRAN/) GRANADOS E N.
 PA (HODG/) HODGES S C.
 PA (KLAS/) KLAS M R.
 PA (KRAT/) KRATOCHVIL J D.
 PA (ROBE/) ROBERTS-RAPP L A.
 PA (RUSE/) RUSESEL J C.
 PA (STRO/) STROUPE S D.
 PI Billingsel PA, Cohen M, Corpitts TL, Friedman PN, Gordon J,
 PI Granados EN, Hodges SC, KLAS MR, Kratochvil JD, Roberts-Rapp LA,
 PI Russell JC, Stroupe SD;
 DR WPI; 2002-403712/43.
 DR N-PSDB; ABL57354.
 XX
 PT New BS265 proteins and nucleic acids, useful for detecting, diagnosing,
 PT staging, monitoring, prognosticating, in vivo imaging, preventing,
 PT treating, or determining the predisposition of an individual to breast
 PT cancer.
 XX
 PS Claim 54; Page 45-46; 52pp; English.
 XX
 CC The present sequence is the protein sequence of human breast BS265
 CC protein, as predicted from a BS265 expressed sequence tag clone (see
 CC ABL57354). The invention provides a set of contiguous and partially
 CC overlapping cDNA sequences (see ABL57345-63), designated as BS265 and

CC transcribed from breast tissue, and the polypeptides encoded by them.
 CC These are useful for detecting, diagnosing, staging, monitoring,
 CC prognosticating, in vivo imaging, preventing, treating, or determining
 CC the predisposition of an individual to diseases and conditions of the
 CC breast, such as breast cancer. Also provided are antibodies which
 CC specifically bind to BS265 proteins, and agonists or inhibitors which
 CC prevent action of the proteins, and which are useful for treatment of
 CC breast disease, especially tumours and metastases
 XX
 SQ Sequence 282 AA:
 Query Match 100.0%; Score 1431; DB 5; Length 282;
 Best Local Similarity 100.0%; Pred. No. 3.9e-116; Mismatches 0; Gaps 0;
 Matches 282; Conservative 0; Indels 0;
 QY 1 MASIGQLFMSIISIIIIAGALALIGFGISGRHSITVTVASAGNIGEDGILCTFEP 60
 DB 1 MASIGQLFMSIISIIIIAGALALIGFGISGRHSITVTVASAGNIGEDGILCTFEP 60
 QY 61 DIKLSDIVIOWLKEGVGLVHEFEKEDLSEODEMFRGRTAVFADQVIVGNASLRLKNV 120
 DB 61 DIKLSDIVIOWLKEGVGLVHEFEKEDLSEODEMFRGRTAVFADQVIVGNASLRLKNV 120
 QY 121 QLTDAQTYKCYIITTSKKGANLEKYTGAFSPMEPVNDVNASSETLRCEAPRPFQPTVV 180
 DB 121 QLTDAQTYKCYIITTSKKGANLEKYTGAFSPMEPVNDVNASSETLRCEAPRPFQPTVV 180
 QY 181 WASQVDOGANFSEVNTSPFLNSENVTMKVSVLYNVTINNTYSCMIENDIAKATGDIKV 240
 DB 181 WASQVDOGANFSEVNTSPFLNSENVTMKVSVLYNVTINNTYSCMIENDIAKATGDIKV 240
 QY 241 TSESEIKRSHLOLINSKASLCVSSFPFAISWALLPLSPYIMLK 282
 DB 241 TSESEIKRSHLOLINSKASLCVSSFPFAISWALLPLSPYIMLK 282
 RESULT 14
 ID AAB18336 standard; protein; 282 AA.
 AC AAB18336;
 DT 07-MAY-2002 (first entry)
 DE Human B7-like protein (B7-L).
 KW Human, B7-like protein; B7-L; reproductive disorder; autoimmune disease;
 KW proliferative disorder; infertility; hyperplasia; cancer; lung; breast;
 KW brain; seminal vesicle; haematopoietic system; tumour; diabetes mellitus;
 KW rheumatoid arthritis; systemic lupus erythematosus; toxic shock syndrome;
 KW inflammatory bowel disease; psoriasis; allergy; Crohn's disease; vaccine;
 KW Grave's disease; arteriosclerosis; multiple sclerosis; hypersensitivity;
 KW nephropathy; skin disorder; endocrinopathy; vasculopathy; gynaecological;
 KW myaethenia ravis; anaemia; lymphoproliferative disorder; neuroprotective;
 KW cytosstatic; multiple myeloma; tissue-degenerating disease; nephrotropic;
 KW immunosuppressive; asthma; virucide; gene therapy.
 OS Homo sapiens.
 PH Key Location/Qualifiers
 FT Peptide 1..24
 FT /label= Signal_peptide
 FT Protein 25..282
 FT /label= Human_mature_B7-L_protein
 PN WO200202624-A2.
 PD 10-JAN-2002.
 PF 29-JUN-2001; 2001WO-US021297.
 PR 30-JUN-2000; 2000US-0215645P.
 XX

PA (AMGE-) AMGEN INC.
 XX Fox M, Sullivan JK, Fang M;
 PI WPI; 2002-171639/22.
 DR N-PSDB; AAD29253.
 XX
 XX Novel B7-1-like polypeptides, polynucleotides and their modulators useful
 PT for prevention and treatment of reproductive, immune and proliferative
 PT disorders, e.g. cancer, arteriosclerosis.
 XX
 XX Claim 13; Fig 1A-1B; 133pp; English.
 XX
 CC The present invention relates to an isolated B7-1-like (B7-L) polypeptide
 CC and its polynucleotide. B7-1 and its modulators are useful for treating
 CC reproductive disorders (e.g. infertility, miscarriage, preterm labour and
 CC delivery and endometriosis) and proliferative disorders. Antibodies,
 CC soluble proteins comprising extracellular domains and other regulators of
 CC B7-L are useful for enhancing the immune response to tumours. B7-1 plays
 CC a role in growth and maintenance of cancer cells based on the observation
 CC of seminal vesicle hyperplasia in transgenic mice overexpressing B7-1.
 CC Modulators of B7-1 are useful for the treatment of cancer e.g. seminal
 CC vesicle, lung, brain, breast, ovarian, testicular cancer and cancers of
 CC haematopoietic system. B7-1 and their modulators are useful to treat
 CC autoimmune diseases such as systemic lupus erythematosus, rheumatoid
 CC arthritis, immune thrombocytopenic purpura and psoriasis, chronic
 CC inflammatory disease such as inflammatory bowel disease (Crohn's disease
 CC and ulcerative colitis), Grave's disease, Hashimoto's thyroiditis and
 CC diabetes mellitus. They are also useful as immunosuppressive agents for
 CC bone marrow and organ transplantation or to prolong graft survival.
 CC Modulators of B7-L are also useful for diagnosis and treatment of
 CC diseases involving abnormal cell proliferation, arteriosclerosis and
 CC vascular restenosis. Soluble B7-L serves as vaccine adjuvants.
 CC Antagonists of B7-L are useful for alleviation of toxic shock syndrome or
 CC allergies. B7-L are useful for blood transfusions, and for treatment of
 CC multiple sclerosis, allergy, asthma and hypersensitivity reactions,
 CC nephropathies (e.g. glomerulonephritis), skin disorders (pemphigus and
 CC pemphigoid), endocrinopathies, various pneumopathies, vasculopathies,
 CC coeliac disease, anaemia, thrombocytopenia, Guillain-Barre syndrome and
 CC myasthenia gravis, and lymphoproliferative disorders such as multiple
 CC myeloma. B7-L gene is useful in gene therapy and to map the locations of
 CC B7-L gene and related genes on chromosomes, as hybridisation probes in
 CC diagnostic assays, for isolating corresponding chromosomal B7-L genes,
 CC and to identify heritable tissue-degenerating diseases. The present
 CC sequence is human B7-L protein
 XX
 XX Sequence 282 AA;
 SQ
 Query Match 100.0%; Score 1431; DB 5; Length 282;
 Best Local Similarity 100.0%; Pred. No. 3,9e-118;
 Matches 282; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MASLQGLFMSITISIIIIAGAILIIGFGISGRHSITVTVAAGNIGEDGILSCFEP 60
 DB 1 MASLQGLFMSITISIIIIAGAILIIGFGISGRHSITVTVAAGNIGEDGILSCFEP 60
 QY 61 DIKLSIDIVYIOWLKEGVLGVHFEKGEKDELSEFODMERGRTAVPADQYVGNASLRILKNV 120
 DB 61 DIKLSIDIVYIOWLKEGVLGVHFEKGEKDELSEFODMERGRTAVPADQYVGNASLRILKNV 120
 QY 61 DIKLSIDIVYIOWLKEGVLGVHFEKGEKDELSEFODMERGRTAVPADQYVGNASLRILKNV 120
 DB 61 DIKLSIDIVYIOWLKEGVLGVHFEKGEKDELSEFODMERGRTAVPADQYVGNASLRILKNV 120
 QY 121 QLTDAQTYKCYITTSKKGKGNANLEKTKGAFSMPENVDVYNASSETLRCEARMPQPTV 180
 DB 121 QLTDAQTYKCYITTSKKGKGNANLEKTKGAFSMPENVDVYNASSETLRCEARMPQPTV 180
 QY 181 WASQVDOGANFSEVNTSEFELNSENVTAKVSVLVNTINNTYSQMIENDIAKATGDIKY 240
 DB 181 WASQVDOGANFSEVNTSEFELNSENVTAKVSVLVNTINNTYSQMIENDIAKATGDIKY 240
 QY 241 TSEIKRSHLOLNSKASLCVSSFFALSMALLPSPYLMK 282
 DB 241 TSEIKRSHLOLNSKASLCVSSFFALSMALLPSPYLMK 282

RESULT 15
 ABB09879
 ID ABB09879 standard; protein: 282 AA.
 XX
 XX ABB09879;
 AC
 AC 30-JUL-2002 (first entry)
 DT
 DT Amino acid sequence of the ORBO gene (gene B).
 DE
 DE Human; gene A; ovarian tumour; gene B; ORBO; ovarian cancer.
 XX
 XX Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers
 FH 12..31
 FT Domain /note= "predicted transmembrane domain"
 FT /note= "46..145"
 FT Domain /note= "predicted Ig domain"
 FT 112
 FT Modified-site /note= "N-glycosylation site"
 FT 160
 FT Modified-site /note= "N-glycosylation site"
 FT 190
 FT Modified-site /note= "N-glycosylation site"
 FT 196
 FT Modified-site /note= "N-glycosylation site"
 FT 205
 FT Modified-site /note= "N-glycosylation site"
 FT 216
 FT Modified-site /note= "N-glycosylation site"
 FT 220
 FT Modified-site /note= "N-glycosylation site"
 FT /note= "N-glycosylation site"
 FT
 PN WO200194641-A2.
 PD 13-DEC-2001.
 XX
 XX 11-JUN-2001; 2001WO-US018700.
 XX
 XX 09-JUN-2000; 2000US-0210451P.
 XX
 XX (IDEC-) IDEC PHARM CORP.
 PA
 XX
 XX Ople E, McLachlan K, Heard C;
 PI
 XX
 XX WPI; 2002-404365/43.
 DR N-PSDB; ABL56582.
 DR
 XX
 XX New polynucleotide and corresponding antigens from human ovarian cancer
 PT cells, useful for treatment and diagnosis of ovarian cancer.
 PT
 XX
 XX Claim 12; Fig 7b; 71pp; English.
 PS
 CC The present sequence represents a protein designated ORBO. The ORBO (Ople
 CC RDA of Epithelial Tissue vs. Ovary tumour) gene is a novel gene, also
 CC designated gene B. This gene was identified by representational
 CC difference analysis (RDA) screening, and is selectively expressed by
 CC certain human ovarian tumours. The specification also describes gene A,
 CC identified by the same method. Gene A and B polynucleotides are useful
 CC for detecting ovarian cancer. Their polypeptides are useful for treating
 CC ovarian cancer
 CC
 XX
 XX Sequence 282 AA;
 SQ
 Query Match 100.0%; Score 1431; DB 5; Length 282;
 Best Local Similarity 100.0%; Pred. No. 3,9e-118;
 Matches 282; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MASLQGLFMSITISIIIIAGAILIIGFGISGRHSITVTVAAGNIGEDGILSCFEP 60
 DB 1 MASLQGLFMSITISIIIIAGAILIIGFGISGRHSITVTVAAGNIGEDGILSCFEP 60

QY 61 DIKLSDIVIOMLKEGVGLVHEFEKGEKDELSEODEMFRGRTAVFADQVIVGNASLRLKXV 120
| | | | |
Db 61 DIKLSDIVIOMLKEGVGLVHEFEKGEKDELSEODEMFRGRTAVFADQVIVGNASLRLKXV 120
| | | | |
QY 121 QLDAGTYKCYITTSKKGKGNANLEYKTGAFSMPEVNDYNASSETLRCEAPRMPPOPTVY 180
| | | | |
Db 121 QLDAGTYKCYITTSKKGKGNANLEYKTGAFSMPEVNDYNASSETLRCEAPRMPPOPTVY 180
| | | | |
QY 181 WASQVDOGANFSEVSNTSFELNSENVTMTKVSVLYNTINNYSQMIENDIAKATGDIKV 240
| | | | |
Db 181 WASQVDOGANFSEVSNTSFELNSENVTMTKVSVLYNTINNYSQMIENDIAKATGDIKV 240
| | | | |
QY 241 TSEIKRSHLOLINSKASLCVSSFFAISWALPLSPYLMK 282
| | | | |
Db 241 TSEIKRSHLOLINSKASLCVSSFFAISWALPLSPYLMK 282
| | | | |

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